

**NOTICE OF DRAFTSPERSON'S
PATENT DRAWING REVIEW**

The drawing(s) filed (insert date) _____ are:

A. approved by the Draftsman under 37 CFR 1.84 or 1.152.
B. objected to by the Draftsman under 37 CFR 1.84 or 1.152 for the reasons indicated below. The Examiner will require submission of new, corrected drawings when necessary. Corrected drawing must be submitted according to the instructions on the back of this notice.

1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings:
Black ink. Color.
 _____ Color drawings are not acceptable until petition is granted.
 Fig(s) _____
 _____ Pencil and non black ink not permitted. Fig(s) _____

2. PHOTOGRAPHS. 37 CFR 1.84(b)
 _____ 1 full-tone set is required. Fig(s) _____
 _____ Photographs may not be mounted. 37 CFR 1.84(c)
 _____ Poor quality (half-tone). Fig(s) 49

3. TYPE OF PAPER. 37 CFR 1.84(c)
 _____ Paper not flexible, strong, white, and durable.
 Fig(s) _____
 _____ Erasures, alterations, overwritings, interlineations, folds, copy machine marks not accepted. Fig(s) _____
 _____ Mylar, vellum paper is not acceptable (too thin). Fig(s) _____

4. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes:
 _____ 21.0 cm by 29.7 cm (DIN size A4)
 _____ 21.6 cm by 27.9 cm (8 1/2 x 11 inches)
 _____ All drawing sheets not the same size.
 Sheet(s) _____
 _____ Drawings sheets not an acceptable size. Fig(s) _____

5. MARGINS. 37 CFR 1.84(g): Acceptable margins:
 Top 2.5 cm Left 2.5cm Right 1.5 cm Bottom 1.0 cm
 SIZE: A4 Size
 Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm
 SIZE: 8 1/2 x 11
 Margins not acceptable. Fig(s) 3, 5-7, 9-10, 20-26, 29
 _____ Top (T) _____ Left (L) _____
 _____ Right (R) _____ Bottom (B) _____

6. VIEWS. 37 CFR 1.84(h)
 REMINDER: Specification may require revision to correspond to drawing changes.
 Partial views. 37 CFR 1.84(h)(3)
 _____ Brackets needed to show figure as one entity. Fig(s) _____
 _____ Views not labeled separately or properly. Fig(s) _____
 _____ Enlarged view not labeled separately or properly. Fig(s) _____

7. SECTIONAL VIEWS. 37 CFR 1.84 (h)(3)
 _____ Hatching not indicated for sectional portions of an object. Fig(s) _____
 _____ Sectional designation should be noted with Arabic or Roman numbers. Fig(s) _____

8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i)
 _____ Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) _____

9. SCALE. 37 CFR 1.84(k)
 _____ Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction. Fig(s) _____

10. CHARACTER OF LINES, NUMBERS, & LETTERS. 37 CFR 1.84(l)
 _____ Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (poor line quality). Fig(s) 48

11. SHADING. 37 CFR 1.84(m)
 _____ Solid black areas pale. Fig(s) _____
 _____ Solid black shading not permitted. Fig(s) _____
 _____ Shade lines, pale, rough and blurred. Fig(s) _____

12. NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR 1.84(p)
 _____ Numbers and reference characters not plain and legible. Fig(s) 40, 49
 _____ Figure legends are poor. Fig(s) _____
 _____ Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1) Fig(s) _____
 _____ English alphabet not used. 37 CFR 1.84(p)(2) Figs _____
 _____ Numbers, letters and reference characters must be at least .32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3) Fig(s) _____

13. LEAD LINES. 37 CFR 1.84(q)
 _____ Lead lines cross each other. Fig(s) _____
 _____ Lead lines missing. Fig(s) _____

14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(i)
 _____ Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Sheet(s) _____

15. NUMBERING OF VIEWS. 37 CFR 1.84(u)
 _____ Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) _____

16. CORRECTIONS. 37 CFR 1.84(w)
 _____ Corrections not made from prior PTO-948 dated _____

17. DESIGN DRAWINGS. 37 CFR 1.152
 _____ Surface shading shown not appropriate. Fig(s) _____
 _____ Solid black shading not used for color contrast. Fig(s) _____

COMMENTS

REVIEWER J. CHASE DATE 11-28-02 TELEPHONE NO. 703 305 8410

ATTACHMENT TO PAPER NO. _____

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REMINDER

Drawing changes may also require changes in the specification, e.g., if Fig. 1 is changed to Fig 1A, Fig. 1B, Fig.1C, etc., the specification, at the Brief Description of the Drawing, must likewise be changed. Please make such changes by 37 CFR 1.312 amendment at the time of submitting drawings.

INFORMATION ON HOW TO EFFECT DRAWING CHANGES

1. Correction of Drawings - 37 CFR 1.85

New corrected drawings must be filed with the changes incorporated therein. Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin. If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings **MUST** be filed within the **THREE MONTH** shortened statutory period set for reply in the Notice of Allowability. Extension of time may NOT be obtained under the provisions of 37 CFR 1.13(e) or (b) for filing the corrected drawing, after the mailing of a Notice of Allowability. The drawing must be filed on a separate paper with the title and address to the Official Drawingperson.

2. Corrections other than Infor malities Noted by the Examiner - 37 CFR 1.85

Changes to the drawings, other than informalities noted by the Examiner, **MUST** be made in the same manner as above, except that, normally, highlighted (preferably red ink) areas of the changes to be incorporated into the new drawings **MUST** be prepared by the applicant before the application. All the allowed changes will be permitted to be made, other than corrections of informality, unless the examiner has approved the proposed change.

Timing of Corrections

Applicant is required to submit the drawing corrections within the first period set in the attached Office communication. See 37 CFR 1.85(a).

Failure to take corrective action within the set period will result in ABANDONMENT of the application.

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